

Claims

What is claimed is:

- 1
1 1. In an information handling system, a method for incorporating a speaker
2 assembly in a portable device of the information handling system, the
3 portable device being operable to receive power from a battery having a
4 plurality of cells, the battery being enclosed in a battery housing and the
5 speaker assembly being enclosed in a speaker container, the method
6 comprising:
7 preparing a selective portion of the battery housing, the selective
8 portion being prepared to receive the speaker container by removal of a
9 predefined number of cells from the plurality of cells; and
10 receiving the speaker container to be placed in the selective portion,
11 wherein dimensions of the battery housing having the speaker container are
12 substantially unchanged.
1
- 1 2. The method of claim 1, wherein the speaker assembly includes a speaker
2 operable to output sound having a frequency range from about 20 Hertz to
3 about 120 Hertz.
1
- 1 3. The method of claim 2, wherein an audio card of the at least one device is
2 electrically coupled to the speaker.
1
- 1 4. The method of claim 2, wherein the speaker container substantially matches
2 a form factor of the selective portion, wherein a base of the speaker container
3 includes an opening to accommodate the speaker.

1 5. The method of claim 2, wherein a volume of the speaker container is
2 sufficient to produce the output sound having the frequency range from about
3 20 Hertz to about 120 Hertz.

1
1 6. The method of claim 1, wherein the battery and the speaker assembly are
2 each electrically coupled to a terminal connector assembly having a plurality
3 of electrical connectors, wherein the battery is coupled to a first portion of the
4 plurality of the electrical connectors for transferring the power, wherein the
5 speaker assembly is coupled to a second portion of the plurality of the
6 electrical connectors for receiving a sound input, and wherein the first portion
7 and the second portion are electrically isolated.

1
1 7. The method of claim 1, wherein the battery housing and the speaker
2 container comprises a plastic material.

1
1 8. The method of claim 1, wherein the incorporation of the speaker assembly in
2 the portable device does not affect other components included in the portable
3 device except for the battery.

1
1 9. The method of claim 1, wherein the incorporation of the speaker assembly in
2 the portable device does not affect an overall size of the portable device.

1
1 10. The method of claim 1, wherein the portable device is defined to include the
2 speaker assembly as an option.

1 11. A battery operable to provide power to a portable device of an information
2 handling system, the battery comprising:
3 a plurality of cells housed in a battery housing, wherein a predefined
4 number of cells included in the plurality of cells are removable to define a
5 selective portion of the battery housing; and
6 a speaker assembly housed in a speaker container, wherein the
7 speaker container is installable in the selective portion, wherein dimensions
8 of the battery housing having the speaker container installed in the selective
9 portion are substantially unchanged.

1 12. The battery of claim 11, comprising:
2 a terminal connector assembly having a plurality of electrical
3 connectors, wherein the battery is electrically coupled to a first portion of the
4 plurality of the electrical connectors for providing the power, wherein the
5 speaker assembly is electrically coupled to a second portion of the plurality of
6 the electrical connectors for receiving an audio output signal generated by the
7 device, and wherein the first portion and the second portion are electrically
8 isolated.

1 13. The battery of claim 11, wherein the speaker assembly includes a speaker
2 operable to output sound having a frequency range from about 20 Hertz to
3 about 120 Hertz.

1 14. The battery of claim 13, wherein an audio card of the portable device is
2 electrically coupled to the speaker.

1 15. The battery of claim 13, wherein the speaker container substantially matches
2 a form factor of the selective portion, wherein a base of the speaker container
3 includes an opening, the opening substantially matching dimensions of the
4 speaker.

1 16. The battery of claim 13, wherein a volume of the speaker container is
2 sufficient to produce the output sound having the frequency range from about
3 20 Hertz to about 120 Hertz.

1 17. The battery of claim 11, wherein the battery housing and the speaker
2 container comprises a plastic material.

1 18. The battery of claim 11, wherein the installation of the speaker assembly in
2 the portable device does not affect other components included in the portable
3 device except for the predefined number of cells.

1 19. The battery of claim 11, wherein the installation of the speaker assembly in
2 the portable device does not affect an overall size of the portable device.

1 20. The battery of claim 11, wherein the portable device is defined to include the
2 speaker assembly as an option.

1 21. An information handling system comprising:

2 a processor;

3 a system bus;

4 a memory coupled to the processor through the system bus;

5 an audio card coupled to the processor and the memory through the
6 system bus;

7 a battery system operable to provide power to the processor, the bus
8 and the memory, the battery being connectable to an AC adapter for deriving
9 power from an AC power source; and

10 wherein the battery system includes:

11 a plurality of cells housed in a battery housing, wherein a
12 predefined number of cells included in the plurality of cells are
13 removable to define a selective portion of the battery housing; and

14 a speaker assembly housed in a speaker container, wherein the
15 speaker container is installable in the selective portion, wherein
16 dimensions of the battery housing having the speaker container
17 installed in the selective portion are substantially unchanged.

1 22. The system of claim 21, comprising:

2 a terminal connector assembly having a plurality of electrical
3 connectors, wherein the battery system is electrically coupled to a first portion
4 of the plurality of the electrical connectors for providing the power, wherein
5 the speaker assembly is electrically coupled to a second portion of the
6 plurality of the electrical connectors for receiving an audio output signal
7 generated by the audio card, and wherein the first portion and the second
8 portion are electrically isolated.